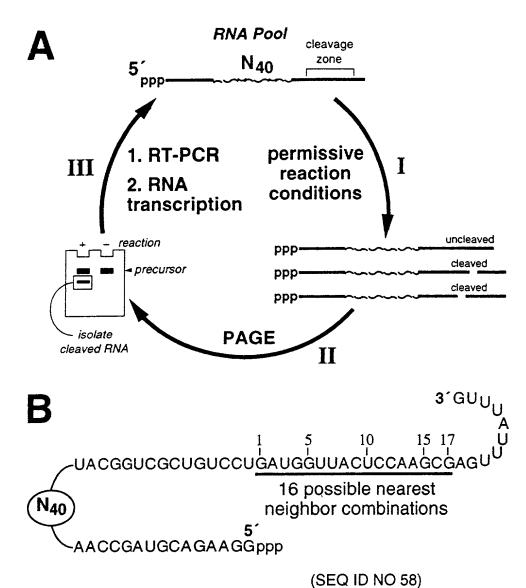
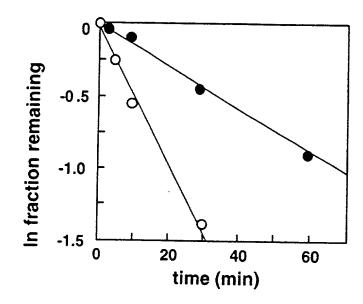
Figure 1

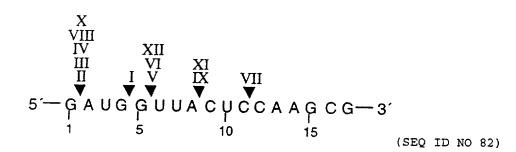


## Figure 2

Class IV G6	Class VIII (G12)  4-301 (mm) -1) = 1 x 10 <sup>-1</sup> 1-30 (C C A O C C A A O C C A A O C C A A O C C A A O C C A A O C C A A O C C A A O C C A A O C C A A O C C A A O C C A A O C C A A O C C A A O C C A A O C C A A O C C A A O C C A A O C C A A O C C A A O C C C A A O C C C A A O C C C A A O C C C A A O C C C A A O C C C A A O C C C A A O C C C A A O C C C A A O C C C A A O C C C A A O C C C A A O C C C A A O C C C A A O C C C A A O C C C A A O C C C A A O C C C C	Class XII (G15)
Class III G6	Class VII  Abba (man 1) = 1 x 10 <sup>-4</sup> Substrate domain  GUCCUGAUGCUCC   2.4 A GC  CUGGGGGGGUCC   2.4 A GC  TOUCCUGAUGGGGGGGUCC   2.4 A GC  TOUCCUGGGGGGGGUCC   2.4 A GC  TOUCCUGGGGGGGGUCC   2.4 A GC  TOUCCUGGGGGGGGGUCC   2.4 A GC  TOUCCUGGGGGGGGGUCC   2.4 A GC  TOUCCUGGGGGGGGGUCC   2.4 A GC  TOUCCUGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	Class XI (G15)  # cos (man <sup>-1</sup> ) = 8 x 10 <sup>-3</sup> SEC D W(7)  SEC D W(
Class II (G6)  4 dest (mal') = 5 x 10 <sup>-2</sup> 5	Cass VI (G9)  **Acon (mma**) = 2 t i0**  **C U C C U C C U C C U C C U C C U C C U C C U C C U C C U C	Class X    Loss (mus <sup>1</sup> ) = 8 x 10 <sup>-4</sup> (GLS)   Loss (mus <sup>1</sup> ) = 8 x 10 <sup>-4</sup> (SEC D to 78)   Sec (D to 70 C of C o
Class 1 (G6)  - k-k-t (mm · ·) = 1 x 10 · · · · · · · · · · · · · · · · · ·	Class V (G9)  \$\frac{1}{k_{205} (mm^{-1})} = 1 \text{ 10}^{-2}\$  \$\frac{1}{k_{205} (mm^{-1})} = 1 \text{ 10}	Class IX  (G12)  4.004 (mm. <sup>1</sup> ) = 3 x 10. <sup>2</sup> 2.



В



## Figure 4

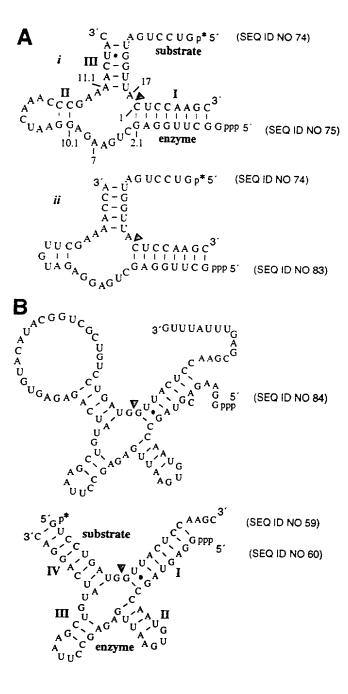
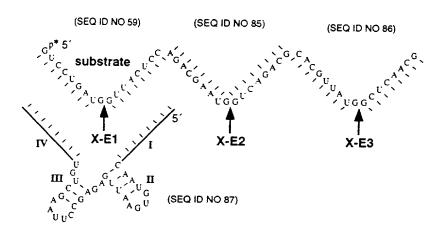


Figure 5



Rate for 6@7 2'-O-Me arms and all ribo core  $K_{obs}$  = 0.056 and 0.058 min <sup>-1</sup> Rate for all 2'-O-Me enzyme with A14.1 = ribo  $K_{obs}$  = 0.00008 min <sup>-1</sup>

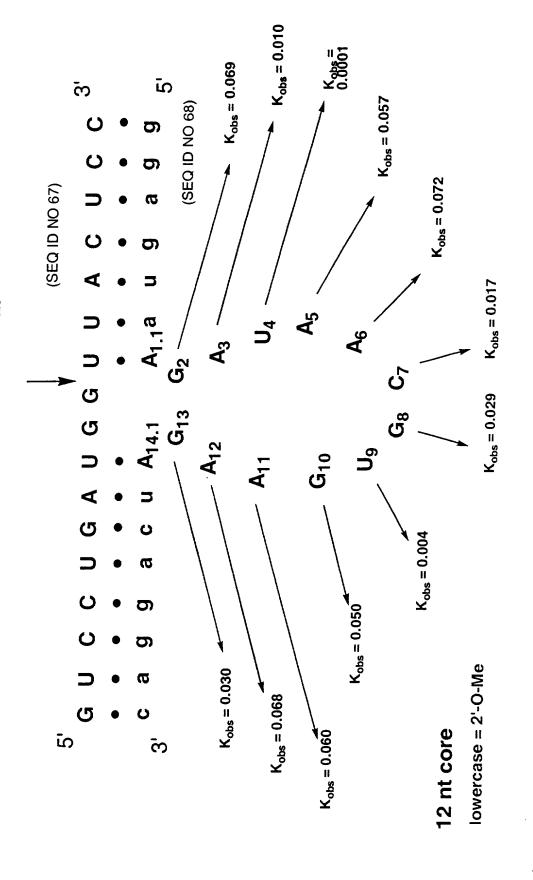
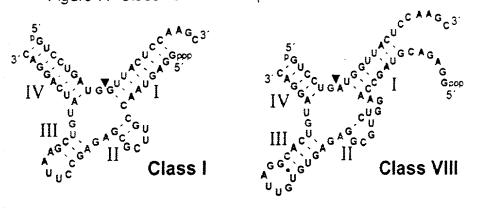


Figure 7: Class I and VIII Sequence and Structural Similarities



Class I motif cleavage site

2 = complementary to 1 3 = G, A or U

4 = complementary to 3

